

## **MEMORANDUM**

**To:** Mayor and City Council  
**From:** Carl Thomas, Stormwater Manager  
**Date:** April 12th, 2021  
**Subject:** Funding Authorization for 1751 Ball Mill Court Stormwater Repairs

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### **ITEM DESCRIPTION**

Approval of Funding for Stormwater Pipe Repairs at 1751 Ball Mill Ct. Estimated cost, plus 20% contingency, is \$82,236.90. .

### **BACKGROUND**

Structural deficiencies to the storm system on Ball Mill Court were identified responding to a sinkhole on 10/9/2020. The entire pipe system is approximately 43.5 years old and in poor condition. CCTV footage discovered severe corrosion with visible holes and offset joints. Recommended repairs include:

- Repair 325 LF of 18" and 30" Corrugated Metal Pipe (CMP) with cured in place pipe
- Replace 65 LF of 18" CMP
- Uncover two buried junction boxes, raise to grade, add ring and cover
- Remove/Replace 60 SY section of driveway

If approved, this project will be funded from the FY2021 Stormwater Repairs and Maintenance Budget.

### **RECOMMENDED ACTION**

Staff recommends approving \$82,236.90 in funding for Stormwater Pipe Repairs at 1751 Ball Mill Ct.

## SINKHOLE FORMING AT BURIED JUNCTION BOX

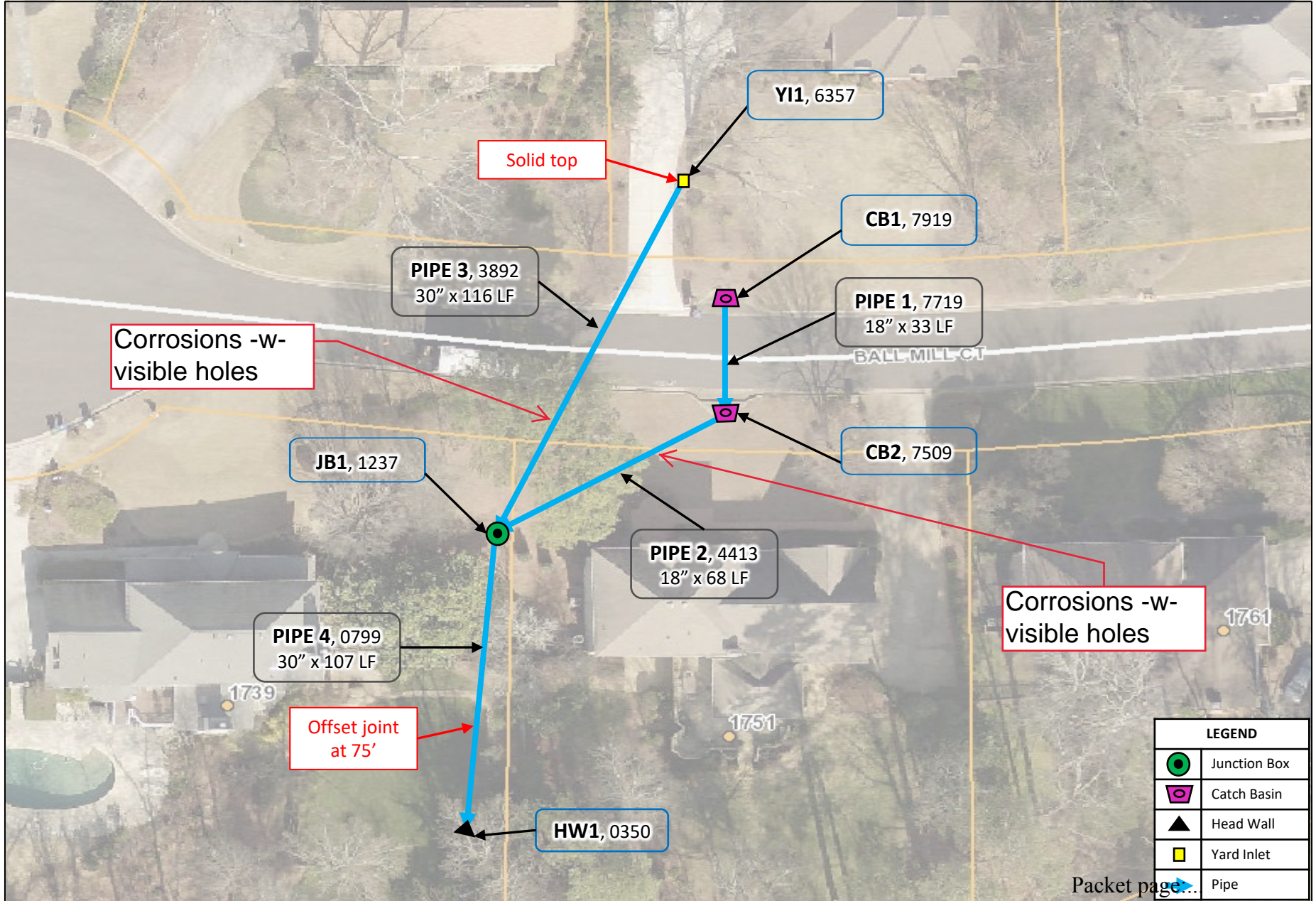




**Lynn Deutsch** Mayor  
**Eric Linton, ICMA-CM** City Manager  
**Sharon Lowery, CMC** City Clerk

**Pam Tallmadge** City Council Post 1  
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<b>IPR Southeast LLC</b>	
<b>ESTIMATE - RFP 18-04 2018 STANDBY STORMWATER REPAIR UNIT CONTRACT</b>	
<b>PROJECT LOCATION:</b>	1751 Ball Mill Ct
<b>DATE ESTIMATE PREPARED:</b>	9-Mar-21
<b>ESTIMATE PREPARED BY:</b>	Derek Mierswa
<b>ESTIMATE AMOUNT:</b>	<b>\$68,530.75</b>
<b>20 % CONTINGENCY:</b>	<b>\$13,706.15</b>
<b>ESTIMATE GRAND TOTAL:</b>	<b>\$82,236.90</b>

<b>Pre-Lining Work:</b>	
	Pre CCTV and Cleaning
	Uncover 2x buried junction box and raise to grade
<b>Lining Work:</b>	
	CIPP Lining - 101 LF of 18"x9.0mm
	CIPP Lining - 223 LF of 30"x13.5mm
<b>Post Lining Work:</b>	
	Post CCTV
	Pipe end seals
	Driveway restoration
	Landscape restoration

ITEM #	Description	Unit	Unit Price	Quantity	Total Costs
<b>General Conditions</b>					
1	Mobilization	EA	\$ 2,000.00	2.00	\$ 4,000.00
<b>Traffic Control</b>					
5	Traffic Control Minor 2 - Includes Cones and Signage	DA	\$ 1,850.00	1.00	\$ 1,850.00
<b>TV Inspection and Jet-Vac Cleaning</b>					
7	CCTV Storm (w/ DVD & Report)	LF	\$ 2.50	324.00	\$ 810.00
<b>Storm Cleaning (less than 25% full)</b>					
12	18" Pipe - Cleaning less 25% full	LF	\$ 4.75	101.00	\$ 479.75
15	30" Pipe - Cleaning less than 25% full	LF	\$ 6.00	223.00	\$ 1,338.00
<b>Round Precast Manholes</b>					
192	5' Round Precast MH w/ Ring & Cover	VF	\$ 550.00	2.00	\$ 1,100.00
<b>Misc &amp; Special Structures/Components</b>					
207	Cast in Place Top w/R/C	CY	\$ 1,150.00	1.00	\$ 1,150.00
209	Invert Installation, 4' Dia	EA	\$ 275.00	3.00	\$ 825.00
210	Invert Installation, 5' Dia	EA	\$ 375.00	1.00	\$ 375.00
213	Uncover Buried JB (<4')	EA	\$ 400.00	2.00	\$ 800.00
<b>Grout Connection to Structure</b>					
222	18" Grout Each End to Structure	EA	\$ 185.00	4.00	\$ 740.00
226	30" Grout Each End to Structure	EA	\$ 240.00	4.00	\$ 960.00
234	Grout all jnt, crcks & holes (8'deep or less)	EA	\$ 500.00	5.00	\$ 2,500.00

<b>Lining Requirements</b>					
<b>CIPP (12' or less in depth)</b>					
<b>Includes Pre and Post TV during lining</b>					
238	18" - 8.0mm (.315")	LF	\$ 65.00	101.00	\$ 6,565.00
241	30" - 12.5mm (.4921")	LF	\$ 130.00	223.00	\$ 28,990.00
255	Add Thickness Per 1.5mm -18"	LF	\$ 3.00	101.00	\$ 303.00
258	Add Thickness Per 1.5mm -30"	LF	\$ 5.00	223.00	\$ 1,115.00
<b>Inversion Setup</b>					
270	Inversion Setup Charge 15-36" CIPP	EA	\$ 900.00	2.00	\$ 1,800.00
<b>Cast in Place Concrete</b>					
337	Driveway 6" Concrete (Comm. w/6" of GAB incl.)	SY	\$ 60.00	80.00	\$ 4,800.00
<b>Earthwork &amp; Grading</b>					
365	Clear & Grubbing	SY	\$ 12.50	2.00	\$ 25.00
368	Haul-In Structural Fill Material	CY	\$ 50.00	30.00	\$ 1,500.00
370	Finish Grading	SY	\$ 5.00	180.00	\$ 900.00
<b>Erosion Control</b>					
389	Sodding Complete - Bermuda	SY	\$ 5.75	100.00	\$ 575.00
393	Pine Straw	SY	\$ 2.50	100.00	\$ 250.00
<b>Miscellaneous Items</b>					
410	Removal Existing Pipe all Types and Sizes	LF	\$ 65.00	10.00	\$ 650.00
411	Saw Cut Existing Pavements	LF	\$ 5.00	40.00	\$ 200.00
412	Stone #57	Ton	\$ 42.00	15.00	\$ 630.00
415	Roll-Off Dumpster	Day	\$ 850.00	3.00	\$ 2,550.00
434	Adjust Manhole Cover in Soil ( complete, includes removal or modifcaiton of old structure top)	EA	\$ 750.00	1.00	\$ 750.00
<b>TOTAL ESTIMATE</b>					<b>\$68,530.75</b>